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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	226	calpain near4 (protease or peptidase or proteinase)	USPAT	OR	OFF	2006/07/26 21:21
L2	112	calpain near4 (human or sapien)	USPAT	OR	OFF	2006/07/26 21:21
L3	56	I1 and I2	USPAT	OR	OFF	2006/07/26 21:21
L4	5	calpain near4 (chick or chicken or gallus)	USPAT	OR	OFF	2006/07/26 21:22
L5	3	I3 and I4	USPAT	OR	OFF	2006/07/26 21:22

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L6

7 L4 AND L5

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DUPLICATE PREFERENCE IS 'MEDLINE, EMBASE, BIOSIS, CAPLUS'

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L7 4 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)

=> d 17 1-4 bib ab

L7 ANSWER 1 OF 4 MEDLINE on STN DUPLICATE 1

AN 1999339989 MEDLINE

DN PubMed ID: 10409436

TI CAPN11: A calpain with high mRNA levels in testis and located on chromosome 6.

AU Dear T N; Moller A; Boehm T

CS Max-Planck Institute for Immunobiology, Stuebeweg 51, Freiburg, D-79108,

Germany.. dear@immunbio.mpg.de

SO Genomics, (1999 Jul 15) Vol. 59, No. 2, pp. 243-7.
Journal code: 8800135. ISSN: 0888-7543.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-AJ242832

EM 199909

ED Entered STN: 21 Sep 1999

Last Updated on STN: 21 Sep 1999

Entered Medline: 8 Sep 1999

AB Calpains are a superfamily of related proteins, some of which have been

shown to function as calcium-dependent cysteine proteases. In mammals,

eight different calpains have been identified. We report the identification of a new mammalian calpain gene, CAPN11. The predicted

protein possesses the features typical of calpains including potential protease and calcium-binding domains. The CAPN11 mRNA exhibits a highly restricted tissue distribution with highest levels

present in testis. Radiation hybrid mapping localized the gene to human

chromosome 6, within a region mapped to p12. Phylogenetic analysis

suggests that, in mammals, the predicted CAPN11 protein is most closely

related to CAPN1 and CAPN2. However, of the calpain sequences available,

the predicted CAPN11 sequence exhibits greatest homology to the

chicken micro/m calpain. Thus CAPN11 may be the human orthologue of micro/m calpain. The discovery of this new calpain emphasizes the complexity of the calpain family, with members being distinguished on the basis of protease activity, calcium dependence, and tissue expression.

Copyright 1999 Academic Press.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:644149 CAPLUS
DN 119:244149
TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives, which affinity-label calpain and related cysteinyl proteinases
AU Wikstrom, Peter; Anagli, John; Angliker, Herbert; Shaw, Elliott
CS Friedrich Miescher-Inst., Basel, CH-4002, Switz.
SO Journal of Enzyme Inhibition (1993), 6(4), 259-69
CODEN: ENINEG; ISSN: 8755-5093
DT Journal
LA English
AB Calpain can be irreversibly inactivated by peptidyl diazomethyl ketones in which the peptide portion contains a penultimate leucine residue. Some new derivs. of this type were synthesized and examined for their rates of inactivation of chicken gizzard and human blood platelet calpain. Two derivs. containing a C-terminal biotin (Biot) residue, Biot-Aca-Leu-TyrCHN2 and Biot-Aca-Leu-Leu-TyrCHN2 (AcA = ϵ -aminocaproic acid), were also prepared in the expectation that their application to the study of the function of calpain and related proteases will prove fruitful.

L7 ANSWER 3 OF 4 MEDLINE on STN
AN 93359993 MEDLINE
DN PubMed ID: 1284963
TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives, which affinity-label calpain and related cysteinyl proteinases
AU Wikstrom P; Anagli J; Angliker H; Shaw E
CS Friedrich Miescher-Institut, Basel, Switzerland.
SO Journal of enzyme inhibition, (1992) Vol. 6, No. 4, pp. 259-69.
Journal code: 8709734. ISSN: 8755-5093.
CY Switzerland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199309

ED Entered STN: 8 Oct 1993
 Last Updated on STN: 3 Mar 2000
 Entered Medline: 21 Sep 1993
AB Calpain, the calcium-activated cysteinyl proteinase,
 can be irreversibly inactivated by peptidyl diazomethyl ketones
in which
 the peptide portion contains a penultimate leucine residue.
Some new
 derivatives of this type have been synthesized and examined for
their
 rates of inactivation of chicken gizzard and human
 platelet calpain. Two derivatives containing a C-terminal
 biotin residue, Biot-Aca-Leu-TyrCHN2 and
Biot-Aca-Leu-Leu-TyrCHN2, have
 also been prepared in the expectation that their application to
the study
 of the function of calpain and related proteases will
 prove fruitful.

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:586041 CAPLUS
DN 109:186041
TI Myelin-associated calpain II
AU Yanagisawa, Katsuhiko; Sato, Shuzo; O'Shannessy, Daniel J.;
Quarles,
 Richard H.; Suzuki, Koichi; Miyatake, Tadashi
CS Brain Res. Inst., Niigata Univ., Niigata, Japan
SO Journal of Neurochemistry (1988), 51(3), 803-7
 CODEN: JONRA9; ISSN: 0022-3042
DT Journal
LA English
AB Anti-chicken muscle calpain (Ca-activated neutral
 protease) antibody (ACAb) was absorbed by purified human brain
 myelin when titrated by ELISA, suggesting the close association
of the
 protease with myelin. To confirm this, Ca-dependent protease
was extracted
 from myelin membrane and purified on a Ph Sepharose CL 4B
column. It was
 activated by Ca²⁺ in the millimolar range, and therefore was
determined to be
 calpain II. This enzyme fraction was electrophoresed and
immunostained
 with ACAb, resulting in staining as a single band with apparent
mol. weight
 of 80K. This protease degraded exogenous myelin-associated
glycoprotein.
 Apparently, calpain II is bound to myelin membrane and is
involved in the
 turnover of myelin proteins.



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1: [Turner MD, Cassell PG, Hitman GA.](#)

Related Articles, Links

Calpain-10: from genome search to function.

Diabetes Metab Res Rev. 2005 Nov-Dec;21(6):505-14. Review.
PMID: 16028216 [PubMed - indexed for MEDLINE]

2: [Groll M, Huber R.](#)

Related Articles, Links

Inhibitors of the eukaryotic 20S proteasome core particle: a structural approach.

Biochim Biophys Acta. 2004 Nov 29;1695(1-3):33-44. Review.
PMID: 15571807 [PubMed - indexed for MEDLINE]

3: [Friedrich P, Tompa P, Farkas A.](#)

Related Articles, Links

The calpain-system of *Drosophila melanogaster*: coming of age.

Bioessays. 2004 Oct;26(10):1088-96. Review.
PMID: 15382138 [PubMed - indexed for MEDLINE]

4: [Goll DE, Thompson VF, Li H, Wei W, Cong J.](#)

Related Articles, Links

The calpain system.

Physiol Rev. 2003 Jul;83(3):731-801. Review.
PMID: 12843408 [PubMed - indexed for MEDLINE]

5: [Baud L, Fouqueray B, Bellocq A, Peltier J.](#)

Related Articles, Links

[Calpains participate in inflammatory reaction development]

Med Sci (Paris). 2003 Jan;19(1):71-6. Review. French.
PMID: 12836194 [PubMed - indexed for MEDLINE]

6: [Maki M, Kitaura Y, Satoh H, Ohkouchi S, Shibata H.](#)

Related Articles, Links

Structures, functions and molecular evolution of the penta-EF-hand Ca^{2+} -binding proteins.

Biochim Biophys Acta. 2002 Nov 4;1600(1-2):51-60. Review.
PMID: 12445459 [PubMed - indexed for MEDLINE]

7: [Carragher NO, Frame MC.](#)

Related Articles, Links

Calpain: a role in cell transformation and migration.

Int J Biochem Cell Biol. 2002 Dec;34(12):1539-43. Review.
PMID: 12379276 [PubMed - indexed for MEDLINE]

8: [Glading A, Lauffenburger DA, Wells A.](#)

Related Articles, Links

 Cutting to the chase: calpain proteases in cell motility.
Trends Cell Biol. 2002 Jan;12(1):46-54. Review.
PMID: 11854009 [PubMed - indexed for MEDLINE]

[9: Reverter D, Sorimachi H, Bode W.](#) Related Articles, Links

 The structure of calcium-free human m-calpain: implications for calcium activation and function.
Trends Cardiovasc Med. 2001 Aug;11(6):222-9. Review.
PMID: 11673052 [PubMed - indexed for MEDLINE]

[10: Donkor IO.](#) Related Articles, Links

 A survey of calpain inhibitors.
Curr Med Chem. 2000 Dec;7(12):1171-88. Review.
PMID: 11032966 [PubMed - indexed for MEDLINE]

[11: Mair J.](#) Related Articles, Links

 Tissue release of cardiac markers: from physiology to clinical applications.
Clin Chem Lab Med. 1999 Nov-Dec;37(11-12):1077-84. Review.
PMID: 10726815 [PubMed - indexed for MEDLINE]

[12: Kinbara K, Sorimachi H, Ishiura S, Suzuki K.](#) Related Articles, Links

 Skeletal muscle-specific calpain, p49: structure and physiological function.
Biochem Pharmacol. 1998 Aug 15;56(4):415-20. Review.
PMID: 9763216 [PubMed - indexed for MEDLINE]

[13: Maki M.](#) Related Articles, Links

 [A family of the intracellular calcium-binding proteins with five EF-hand motifs]
Seikagaku. 1998 Mar;70(3):202-7. Review. Japanese. No abstract available.
PMID: 9591464 [PubMed - indexed for MEDLINE]

[14: Tagawa K, Sorimachi H, Ishiura S, Suzuki K, Tagawa K, Seyama Y.](#) Related Articles, Links

 [Calpain super family and its interacting-proteins]
Tanpakushitsu Kakusan Koso. 1997 Oct;42(14 Suppl):2165-74. Review. Japanese.
No abstract available.
PMID: 9366193 [PubMed - indexed for MEDLINE]

[15: Turk B, Turk V, Turk D.](#) Related Articles, Links

 Structural and functional aspects of papain-like cysteine proteinases and their protein inhibitors.
Biol Chem. 1997 Mar-Apr;378(3-4):141-50. Review.
PMID: 9165064 [PubMed - indexed for MEDLINE]

[16: Saido TC, Sorimachi H, Suzuki K.](#) Related Articles, Links

 Calpain: new perspectives in molecular diversity and physiological-pathological involvement.
FASEB J. 1994 Aug;8(11):814-22. Review.
PMID: 8070630 [PubMed - indexed for MEDLINE]

[17: Sorimachi H, Saido TC, Suzuki K.](#) Related Articles, Links

New era of calpain research. Discovery of tissue-specific calpains.

 FEBS Lett. 1994 Apr 18;343(1):1-5. Review.
PMID: 8163008 [PubMed - indexed for MEDLINE]

 18: [Kikkawa U, Kishimoto A, Nishizuka Y.](#)

[Related Articles](#), [Links](#)

 The protein kinase C family: heterogeneity and its implications.
Annu Rev Biochem. 1989;58:31-44. Review. No abstract available.
PMID: 2549852 [PubMed - indexed for MEDLINE]

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Jul 25 2006 06:31:58

Swope, Sheridan

From: Reynolds, Deborah
Sent: Wednesday, July 26, 2006 4:25 PM
To: Swope, Sheridan
Subject: RE: 10/009, 571

Let it go.

-----Original Message-----

From: Swope, Sheridan
Sent: Wednesday, July 26, 2006 4:21 PM
To: Reynolds, Deborah
Subject: 10/009, 571

Debbie,

Re the Oath:

The address was changed and dated but not initialed.

The oath was signed and dated the same day.

Would you let this go or object?

Thanks,

Sheridan

PS You did a good job at the R/E lecture; not sure why people are so hostile!!!

<< OLE Object: Picture (Device Independent Bitmap) >>

Sheridan Swope, Ph.D.
Primary Patent Examiner
AU 1656/Recombinant Enzymes
571-272-0943 (voice)
E02D19 Remsen Bld (Office)
E03C70 Remsen Bld (Mailbox)
Helping applicants get good patents.